

CLAIMS

What is claimed is:

1. A method of providing multiple grades of wireless service to multiple field users for communication of data between a base station and multiple subscriber units over one or more CDMA communication channels, each grade of service having a corresponding priority level, the method comprising the steps of:
 - 5 reserving a bandwidth and dividing the bandwidth into a plurality of channels;
 - maintaining a connection between multiple subscriber units and the base station;
 - 10 detecting a request by multiple field units to simultaneously transmit data to the base station;
 - assigning the subchannels for communication between the base station and subscriber units based on a corresponding priority level of requesting field units, the priority level depending upon historical demand by a user making a specific request.
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2. A method as described in claim 1 further comprising the step of:
 - reducing a priority level of a field unit for exceeding a predetermined threshold of allowed usage.
- 20 3. A method of providing multiple grades of service in a demand access communication system, in which grade of service depends on historical use of available resources and continuity of resource allocation.